



"Imagine feeling safe from the risk of fire in your everyday environment, whether it's at home, at work, in natural areas, in the construction industry, in the woodworking industry, or basically anywhere.  
With the fire retardant of EcoNoFlame SRL., this is not just a dream, but a real, achievable solution."

## PRODUCT DESCRIPTION

### *General Product Description*

As a result of years of experience and international cooperation, a compound has been developed made from elements of life, which, when applied by impregnation, painting, or spraying to various combustible materials such as wood, paper, textiles, and plants, makes them fire-resistant.

When exposed to high temperatures, the treated materials char but do not ignite. Even in high-temperature flames, they do not catch fire. In the case of partially treated materials, the flame will extinguish at the boundary of the treatment.

In addition to its effectiveness, the developed compound has the following favourable properties:

- **Environmentally friendly and safe:** During the decomposition of the compound, no harmful substances are produced, and it is completely harmless to wildlife and human health.
- **Sustainable and efficient:** Its effects are long-lasting. The fire-retardant material effectively binds oxygen around the ignition temperature, preventing the spread of fire.
- **Free of toxic gases:** No toxic gases are released during the application and action of the fire retardant, ensuring the safety of firefighters and the environment. Unlike similar products, it contains no halogens, so its decomposition does not harm the health of firefighting personnel or the environment.
- **Excellent cost-effectiveness:** Fire retardant not only offers effective fire protection but also provides an affordable solution.

It can be produced using a simple, environmentally friendly technology, without generating waste or by-products during manufacturing.

### *Fire retardant parameters*

The fire retardant is a non-toxic, highly effective, water-soluble, colorless, odorless, and environmentally friendly material that prevents the spread and formation of fire.

### *Fire retardant composition*

The fire retardant is a water-based substance created through the reaction of organic and inorganic materials. Any product that can absorb liquid (water) can be made fire-resistant against flames by following the instructions.

### *Mode of Action*

The active ingredients in the fire retardant penetrate the treated material very easily during the treatment process. After the evaporation of the water (as the solvent of the material), the active ingredients remain in the treated material.

Long-term studies have shown that the active ingredients remain in the treated material until it is exposed again to water or high moisture content.

The active ingredients remain inactive until they are activated by the ignition temperature. At the ignition temperature, the active ingredients bind oxygen, removing one of the essential conditions for the formation of fire. As a result, the fire cannot spread, and the treated material will not catch fire or ignite.



"Imagine feeling safe from the risk of fire in your everyday environment, whether it's at home, at work, in natural areas, in the construction industry, in the woodworking industry, or basically anywhere.  
With the fire retardant of EcoNoFlame SRL., this is not just a dream, but a real, achievable solution."

### ***Application Areas***

The fire retardant is an ideal choice for the construction industry, fire-retardant treatment of various insulating materials, wood, wood chips, hemp, cellulose, wool, reeds, and straw.

It also provides excellent protection for textiles, papers, decorations, and wallpapers. It is perfectly suitable for preventing and extinguishing forest fires, wildfires, protecting natural resources, agriculture, and waste disposal sites.

### ***Instructions for use***

Proper impregnation can be achieved through spraying, soaking, mixing, or other surface treatment methods.

The required amount depends on the surface weight (g/m<sup>2</sup>) and the material's absorbency.

The fire retardant has been tested with excellent results in several countries, including the United States, Australia, Thailand, and various European countries.

### ***Competitive Advantage***

There are many known fire-retardant, flame-retardant, and flame-extinguishing substances and mixtures on the market, such as mixtures made from various inorganic phosphates. Similar solutions are described in patents RU 2203177, RU 219735, and GB 2002434A.

These inventions generally involve either 30% aqueous solutions of diammonium phosphate, mixtures of diammonium phosphate-urea and sodium phosphate, or mixtures of sodium borate, sodium phosphate, and disodium phosphate used for fire-retardant production.

Although the production of these patented materials is simple, they do not have environmentally friendly properties. They contain halogens or release toxic gases at high temperatures when exposed to fire, making them unsuitable for use in fireproofing living environments.

In contrast, the fire retardant is non-toxic, has a positive effect on living plants (functions as a nutrient), and can be used to prevent and extinguish forest and wildfires. While some similar products can be found on the market that approach the properties of the fire retardant, they are extremely expensive.

**The fire retardant material of EconoFlame SRL. is completely SAFE and ENVIRONMENTALLY FRIENDLY!**

**It is especially IDEAL for those looking for an EFFECTIVE yet BUDGET-FRIENDLY solution.**